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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/088,223	03/18/2002	Georg Heinrich Grosch	IN-12122	9964	
7:	590 12/18/2002				
Basf Corporat			EXAMINER		
1609 Biddle Av Wyandotte, MI			SERGENT, RABON A		
			ART UNIT	PAPER NUMBER	
			1711	6	
			DATE MAILED: 12/18/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No. Ap

Applicant(s)

Grosch et al.

Examiner

Rabon Sergent

Art Unit 1711

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	The MAILING DATE of this communication appears on th	ne cover sheet with the correspondence address			
Period 1	for Reply	THE PARTITION FROM			
THE	ORTENED STATUTORY PERIOD FOR REPLY IS SET TO MAILING DATE OF THIS COMMUNICATION. Signs of time may be available under the provisions of 37 CFR 1.136 (a). In no every constant of the provisions of 37 CFR 1.136 (a).				
mailing - If the p - If NO p - Failure - Any re	sions of time may be available under the provisions of 37 CFR 1.136 (a). If the ever g date of this communication. period for reply specified above is less than thirty (30) days, a reply within the state period for reply is specified above, the maximum statutory period will apply and will be to reply within the set or extended period for reply will, by statute, cause the apply received by the Office later than three months after the mailing date of this could patent term adjustment. See 37 CFR 1.704(b).	utory minimum of thirty (30) days will be considered timely. I expire SIX (6) MONTHS from the mailing date of this communication. lication to become ABANDONED (35 U.S.C. § 133).			
Status					
1) 🗆	Responsive to communication(s) filed on	•			
2a) 🗌	This action is FINAL . 2b) ☑ This action i	s non-final.			
3) 🗆	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.				
	ition of Claims	the state of the seathers			
					
4	4a) Of the above, claim(s)	is/are withdrawn from consideration.			
5) 🗆					
6) 💢					
7) 🗆					
8) 🗆		are subject to restriction and/or election requirement.			
Application Papers					
9) The specification is objected to by the Examiner.					
10)	The drawing(s) filed on is/are a)	\square accepted or b) \square objected to by the Examiner.			
10,0	10) The drawing(s) filed on is/are a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).				
11)□	The proposed drawing correction filed on	is: a) ☐ approved b) ☐ disapproved by the Examiner			
•	. If approved, corrected drawings are required in reply to the				
_					
12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☑ All b) ☐ Some* c) ☐ None of:					
1. Certified copies of the priority documents have been received.					
	2. ☐ Certified copies of the priority documents have been received in Application No 3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage				
*(application from the International Bureau (See the attached detailed Office action for a list of the ce	(PCT Rule 17.2(a)).			
14)	Acknowledgement is made of a claim for domestic price	ority under 35 U.S.C. § 119(e).			
a) \square The translation of the foreign language provisional application has been received.					
15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.					
Attachi	ment(s)				
1) 🔲 !	MOTICS OF FISHERS CITES IT IS AS -1	Interview Summary (PTO-413) Paper No(s).			
	Notice of Dialisperson at atom Endang to the Control of the Contro	Notice of Informal Patent Application (PTO-152)			
31 💢 1	Information Disclosure Statement(s) (PTO-1449) Paper No(s). 2.5 6)	Other:			

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1. Claims 1-9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Within claims 1 and 6, it is unclear how to interpret the language, "in each case in an amount of not more that 40% by weight". Specifically, it is unclear what components or situations are being referred to by "in each case".

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

3. Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combined teachings of Hartman ('854) and WO 97/27236.

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Hartman discloses that the use of a polyoxyalkylene polyol having a high content oxyethylene internal block, capped with oxypropylene blocks, within polyurethane foams yields foams having good air flow and improved load bearing properties. See abstract and column 1. WO 97/27236 teaches at page 14 that polyurethane foams produced from multimetal cyanide catalyzed polyoxyalkylene polyols having a high content oxypropylene internal block have problems with shrinkage. Therefore, the prior art is considered to teach the desirability of using a polyoxyalkylene polyol having a high content oxyethylene internal block, which is capped with oxypropylene blocks, for producing polyurethanes. Additionally, WO 97/27236 teach at pages 5 and 6 that a primary benefit of using a multimetal cyanide catalyst for producing oxypropylene containing polyols is that the resulting polyols have a low degree of unsaturation and resulting monofunctionality. These properties are considered to be beneficial in the production of polymers due to the reduced levels of chain termination they yield.

4. However, WO 97/27236 further teaches at page 15 that when multimetal cyanide catalysts are used within high ethylene oxide content polyether yielding polymerizations, the resulting polyethers will have poor properties. If such high levels of ethylene oxide are to be used, the reference recommends that basic catalysts be used. Though the passage at page 15 of WO 97/27236 pertains to the production of oxyethylene caps, one would have reasonably expected that inferior polyethers will result any time multimetal cyanide catalysts are used with high levels of ethylene oxide. Furthermore, this teaching is considered to disclose the oxyethylene end caps of claims 4, 5, and 8.

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5. Therefore, in view of the teaching regarding the desirability of using polyethers having high content oxyethylene internal blocks and the teaching regarding the advantages of using multimetal cyanide catalysts with propylene oxide, as well as the teaching regarding the disadvantages of using multimetal cyanide catalysts with ethylene oxide, the position is taken that one of ordinary skill in the art would have been motivated to produce a polyether polyol by using a basic catalyst to polymerize an internal high content oxyethylene block and subsequently using a multimetal cyanide catalyst to polymerize capping oxypropylene blocks, having low unsaturation and increased functionality, so as to arrive at the instant invention.

Any inquiry concerning this communication should be directed to R. Sergent at telephone number (703) 308-2982.

RABON SERGENT PRIMARY EXAMINER

R. Sergent

December 14, 2002